Guopeng Wang

List of Publications by Year
in descending order

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63 papers	2,827 citations	172457 29 h-index	175258 52 g-index
63 all docs	63 docs citations	63 times ranked	1771 citing authors

#	Article	IF	Citations
1	Structure and the enhanced ferromagnetism in single phase Sr4Fe5CoO13-Î´ ceramic. Ceramics International, 2022, 48, 19963-19970.	4.8	4
2	Highly stable and efficient Pt single-atom catalyst for reversible proton-conducting solid oxide cells. Applied Catalysis B: Environmental, 2022, 316, 121627.	20.2	16
3	Ruddlesdenâ€“Popper oxide SrEu₂Fe₂O₇ as a promising symmetrical electrode for pure CO₂ electrolysis. Journal of Materials Chemistry A, 2021, 9, 2706-2713.	10.3	38
4	<i>In situ</i> coating of a lithiophilic interphase on a biporous Cu scaffold with vertical microchannels for dendrite-free Li metal batteries. Journal of Materials Chemistry A, 2021, 9, 13642-13652.	10.3	9
5	Infiltrated Ni_{0.08}Co_{0.02}CeO_{2â€“<i>x</i>}@Ni_{0.8}Co_{0.2} Catalysts for a Finger-Like Anode in Direct Methane-Fueled Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 4943-4954.	8.0	13
6	Dopant-induced surface activation of ceria nanorods for electro-oxidation of hydrogen and propane in solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 17922-17931.	7.1	6
7	Oxygen vacancy-engineered cobalt-free Ruddlesden-Popper cathode with excellent CO2 tolerance for solid oxide fuel cells. Journal of Power Sources, 2021, 497, 229872.	7.8	26
8	Theoretical and Experimental Investigations on Kâ€doped SrCo_{0.9}Nb_{0.1}O_{3â€<i>Î´</i>} as a Promising Cathode for Protonâ€Conducting Solid Oxide Fuel Cells. ChemSusChem, 2021, 14, 3876-3886.	6.8	23
9	K doping as a rational method to enhance the sluggish air-electrode reaction kinetics for proton-conducting solid oxide cells. Electrochimica Acta, 2021, 389, 138453.	5.2	20
10	The nanoscale control of disorder-to-order layer-stacking boosts multiferroic responses in an Aurivillius-type layered oxide. Journal of Materials Chemistry C, 2021, 9, 4825-4837.	5.5	6
11	Antimony doping to greatly enhance the electrocatalytic performance of Sr₂Fe_{1.5}Mo_{0.5}O_{6â^'<i>Î´</i>} perovskite as a ceramic anode for solid oxide fuel cells. Journal of Materials Chemistry A, 2021, 9, 24336-24347.	10.3	23
12	A Durable Ruddlesdenâ€Popper Cathode for Protonic Ceramic Fuel Cells. ChemSusChem, 2020, 13, 4994-5003.	6.8	33
13	A novel BaFe0.8Zn0.1Bi0.1O3â^'Î´ cathode for proton conducting solid oxide fuel cells. Ceramics International, 2020, 46, 25453-25459.	4.8	25
14	Computational investigation of Zn-doped and undoped SrEu₂Fe₂O₇ as potential mixed electron and proton conductors. RSC Advances, 2020, 10, 39988-39994.	3.6	1
15	Protonic Ceramic Electrochemical Cell for Efficient Separation of Hydrogen. ACS Applied Materials & Interfaces, 2020, 12, 25809-25817.	8.0	14
16	Defects evolution of Ca doped La2NiO4+Î´ and its impact on cathode performance in proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 17736-17744.	7.1	22
17	Review of anodic reactions in hydrocarbon fueled solid oxide fuel cells and strategies to improve anode performance and stability. Materials for Renewable and Sustainable Energy, 2020, 9, 1.	3.6	32
18	Cathode materials for proton-conducting solid oxide fuel cells. , 2020, , 263-314.		3

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19	Novel in-situ MgO nano-layer decorated carbon-tolerant anode for solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 11791-11801.	7.1	18
20	Co-generation of electricity and olefin via proton conducting fuel cells using (Pr0.3Sr0.7)0.9Ni0.1Ti0.9O3 catalyst layers. Applied Catalysis B: Environmental, 2020, 272, 118973.	20.2	37
21	Novel carbon and sulfur-tolerant anode material FeNi₃@PrBa(Fe,Ni)_{1.9}Mo_{0.1}O_{5+Î´} for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2019, 7, 21783-21793.	10.3	34
22	BaCoxFe0.7-xZr0.3O3-Î´(0.2â‰xâ‰0.5) as cathode materials for proton-based SOFCs. Ceramics International, 2019, 45, 23948-23953.	4.8	17
23	Controllable CO₂conversion in high performance proton conducting solid oxide electrolysis cells and the possible mechanisms. Journal of Materials Chemistry A, 2019, 7, 4855-4864.	10.3	37
24	An excellent OER electrocatalyst of cubic SrCoO_{3âˆ'Î´} prepared by a simple F-doping strategy. Journal of Materials Chemistry A, 2019, 7, 12538-12546.	10.3	112
25	A novel cobalt-free cathode with triple-conduction for proton-conducting solid oxide fuel cells with unprecedented performance. Journal of Materials Chemistry A, 2019, 7, 16136-16148.	10.3	145
26	Anisotropic magnetic property and exchange bias effect in a homogeneous Sillen-Aurivillius layered oxide. Journal of the European Ceramic Society, 2019, 39, 2685-2691.	5.7	6
27	Nanoscale Structural Modulation and Low-temperature Magnetic Response in Mixed-layer Aurivillius-type Oxides. Scientific Reports, 2018, 8, 871.	3.3	18
28	New, Efficient, and Reliable Air Electrode Material for Proton-Conducting Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2018, 10, 1761-1770.	8.0	131
29	Anisotropic electrical and magnetic properties in grain-oriented Bi₄Ti₃O₁₂â€"La_{0.5}Sr_{0.5}MnO₃. Journal of Materials Chemistry C, 2018, 6, 11272-11279.	5.5	14
30	Investigation of real polarization resistance for electrode performance in proton-conducting electrolysis cells. Journal of Materials Chemistry A, 2018, 6, 18508-18517.	10.3	51
31	A Stable and Efficient Cathode for Fluorineâ€Containing Protonâ€Conducting Solid Oxide Fuel Cells. ChemSusChem, 2018, 11, 3423-3430.	6.8	67
32	A first-principles study on divergent reactions of using a Sr3Fe2O7 cathode in both oxygen ion conducting and proton conducting solid oxide fuel cells. RSC Advances, 2018, 8, 26448-26460.	3.6	28
33	Superlattice-like structure and enhanced ferroelectric properties of intergrowth Aurivillius oxides. RSC Advances, 2018, 8, 16937-16946.	3.6	7
34	Room Temperature Exchange Bias in Structure-Modulated Single-Phase Multiferroic Materials. Chemistry of Materials, 2018, 30, 6156-6163.	6.7	17
35	Engineering the exchange bias and bias temperature by modulating the spin glassy state in single phase Bi9Fe5Ti3O27. Nanoscale, 2017, 9, 8305-8313.	5.6	14
36	Realizing semiconductivity by a large bandgap tuning in Bi4Ti3O12 via inserting La1-<i>x</i>Sr<i>x</i>MnO3 perovskite layers. Applied Physics Letters, 2017, 110, .	3.3	7

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37	Performance and DRT analysis of P-SOFCs fabricated using new phase inversion combined tape casting technology. Journal of Materials Chemistry A, 2017, 5, 19664-19671.	10.3	137
38	The structure and properties of Co substituted Bi7Ti4NbO21 with intergrowth phases. RSC Advances, 2017, 7, 50477-50484.	3.6	3
39	Structural and Physical Properties of Mixedâ€Layer Aurivilliusâ€Type Multiferroics. Journal of the American Ceramic Society, 2016, 99, 3033-3038.	3.8	26
40	High-Performanced Cathode with a Two-Layered Râ€“P Structure for Intermediate Temperature Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 4592-4599.	8.0	62
41	Observation of Exchange Anisotropy in Single-Phase Layer-Structured Oxides with Long Periods. Scientific Reports, 2015, 5, 15261.	3.3	27
42	Structural Evolution and Multiferroics in Srâ€Doped Bi₇Fe_{1.5}Co_{1.5}Ti₃O₂₁ Ceramics. Journal of the American Ceramic Society, 2015, 98, 1528-1535.	3.8	27
43	The effect of oxygen transfer mechanism on the cathode performance based on proton-conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 2207-2215.	10.3	54
44	Platinum-induced structural collapse in layered oxide polycrystalline films. Applied Physics Letters, 2015, 106, .	3.3	10
45	A high performance cathode for proton conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 8405-8412.	10.3	113
46	Facile route to prepare grain-oriented multiferroic Bi7Fe3âˆ'Co Ti3O21 ceramics. Journal of the European Ceramic Society, 2015, 35, 3437-3443.	5.7	19
47	Interface engineering in epitaxial growth of layered oxides via a conducting layer insertion. Applied Physics Letters, 2015, 107, .	3.3	18
48	Low magnetic field response single-phase multiferroics under high temperature. Materials Horizons, 2015, 2, 232-236.	12.2	79
49	Yttrium-modified Bi₇Fe_{1.5}Co_{1.5}Ti₃O₂₁ceramics with improved room temperature multiferroic properties. RSC Advances, 2014, 4, 29264.	3.6	19
50	Nanoscale structural modulation and enhanced room-temperature multiferroic properties. Nanoscale, 2014, 6, 13494-13500.	5.6	53
51	First-principles study of O₂ reduction on BaZr_{1âˆ'x}Co_xO₃ cathodes in protonic-solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 16707-16714.	10.3	29
52	Oxygen reduction and transport on the La1âˆ'xSrxCo1âˆ'yFeyO3âˆ'Î´ cathode in solid oxide fuel cells: a first-principles study. Journal of Materials Chemistry A, 2013, 1, 12932.	10.3	55
53	Cobalt-doped BaZrO3: A single phase air electrode material for reversible solid oxide cells. International Journal of Hydrogen Energy, 2012, 37, 12522-12527.	7.1	82
54	Novel Niâ€“Ba1+xZr0.3Ce0.5Y0.2O3âˆ'Î´ hydrogen electrodes as effective reduction barriers for reversible solid oxide cells based on doped ceria electrolyte thin film. Journal of Power Sources, 2012, 199, 142-145.	7.8	25

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55	Characterization and evaluation of NdBaCo2O5+Î´ cathode for proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2010, 35, 753-756.	7.1	48
56	Cobalt-free oxide Ba0.5Sr0.5Fe0.8Cu0.2O3â^'Î´ for proton-conducting solid oxide fuel cell cathode. International Journal of Hydrogen Energy, 2010, 35, 3769-3774.	7.1	66
57	Cathode processes and materials for solid oxide fuel cells with proton conductors as electrolytes. Journal of Materials Chemistry, 2010, 20, 6218.	6.7	163
58	Influence of anode pore forming additives on the densification of supported BaCe0.7Ta0.1Y0.2O3â^'Î´ electrolyte membranes based on a solid state reaction. Journal of the European Ceramic Society, 2009, 29, 2567-2573.	5.7	29
59	Cathode reaction models and performance analysis of Sm0.5Sr0.5CoO3â^'Î´â€"BaCe0.8Sm0.2O3â^'Î´ composite cathode for solid oxide fuel cells with proton conducting electrolyte. Journal of Power Sources, 2009, 194, 263-268.	7.8	168
60	High performance of proton-conducting solid oxide fuel cell with a layered PrBaCo2O5+Î´ cathode. Journal of Power Sources, 2009, 194, 835-837.	7.8	109
61	A novel single phase cathode material for a proton-conducting SOFC. Electrochemistry Communications, 2009, 11, 688-690.	4.7	105
62	Direct liquid methanol-fueled solid oxide fuel cell. Journal of Power Sources, 2008, 185, 188-192.	7.8	115
63	A novel anode supported BaCe0.7Ta0.1Y0.2O3â^'Î´ electrolyte membrane for proton-conducting solid oxide fuel cell. Electrochemistry Communications, 2008, 10, 1598-1601.	4.7	112